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DATE: Thursday, May 19, 2005

Hide? Set Name Query**Hit Count***DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ*☐ L4 L3 and (nucleic acid or DNA) and CTG 3☐ L3 (candida rugosa or candida cylindracea) same (lipase or lipolytic enzyme) 169*DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ*☐ L2 L1 and (nucleic acid or DNA) and CTG 11☐ L1 (candida rugosa or candida cylindracea) same (lipase or lipolytic enzyme) 652

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☐ 1. Document ID: US 6774284 B1

L2: Entry 1 of 11

File: USPT

Aug 10, 2004

US-PAT-NO: 6774284

DOCUMENT-IDENTIFIER: US 6774284 B1

TITLE: DNA encoding a plant lipase, transgenic plants and a method for controlling senescence in plants

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; John E.	Waterloo			CA
Wang; Tzann-Wei	Waterloo			CA
Hudak; Katalin	East Brunswick	NJ		
Hong; Yuwen	Waterloo			CA

US-CL-CURRENT: 800/290; 435/320.1, 435/419, 435/468, 435/471, 536/23.6, 800/286, 800/287, 800/298

ABSTRACT:

Regulation of expression of senescence in plants is achieved by integration of a gene or gene fragment encoding senescence-induced lipase into the plant genome in antisense orientation. The carnation and Arabidopsis genes encoding senescence-induced lipase are identified and the nucleotide sequences are used to modify senescence in transgenic plants.

51 Claims, 21 Drawing figures

Exemplary Claim Number: 19

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawing
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☐ 2. Document ID: US 6495357 B1

L2: Entry 2 of 11

File: USPT

Dec 17, 2002

US-PAT-NO: 6495357

DOCUMENT-IDENTIFIER: US 6495357 B1

TITLE: Lipolytic enzymes

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuglsang; Claus Crone	Nivaa			DK
Okkels; Jens Sigurd	Fr�deriksberg			DK
Petersen; Dorte Aaby	Birkerod			DK
Patkar; Shamkant Anant	Lyngby			DK
Thellersen; Marianne	Frederiksberg			DK
Svendsen; Allan	Birkerod			DK
Borch; Kim	Copenhagen			DK
Royer; John C.	Davis	CA		
Kretzschmar; Titus	Vaerloese			DK
Halkier; Torben	Birkerod			DK
Vind; Jesper	Lyngby			DK
Jorgensen; Steen Troels	Alleroed			DK

US-CL-CURRENT: [435/198](#); [435/195](#), [435/196](#), [435/197](#)

ABSTRACT:

The present invention relates to a modified enzyme with lipolytic activity, a lipolytic enzyme capable of removing a substantial amount of fatty matter a one cycle wash, a DNA sequence encoding said enzymes, a vector comprising said DNA sequence, a host cell harbouring said DNA sequence or said vector, and a process for producing said enzymes with lipolytic activity.

63 Claims, 22 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 22

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWNC	Draw De
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☐ 3. Document ID: US 6448046 B1

L2: Entry 3 of 11

File: USPT

Sep 10, 2002

US-PAT-NO: 6448046

DOCUMENT-IDENTIFIER: US 6448046 B1

TITLE: Recombinant animal viral nucleic acids

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donson; Jon	Davis	CA		
Dawson; William O.	Winter Haven	FL		

Grantham; George L.	Riverside	CA
Turpen; Thomas H.	Vacaville	CA
Turpen; Ann M.	Vacaville	CA
Garger; Stephen J.	Vacaville	CA
Grill; Laurence K.	Vacaville	CA

US-CL-CURRENT: [435/70.1](#); [435/235.1](#), [435/320.1](#), [435/325](#), [435/455](#), [435/456](#), [435/69.1](#), [536/23.1](#), [536/24.1](#)

ABSTRACT:

The present invention relates to a recombinant viral nucleic acid selected from a (+) sense, single stranded RNA virus possessing a native subgenomic promoter encoding for a first viral subgenomic promoter, a nucleic acid sequence that codes for a viral coat protein whose transcription is regulated by the first viral subgenomic promoter, a second viral subgenomic promoter and a second nucleic acid sequence whose transcription is regulated by the second viral subgenomic promoter. The first and second viral subgenomic promoters of the recombinant viral nucleic acid do not have homologous sequences relative to each other. The recombinant viral nucleic acid provides the particular advantage that it systemically transcribes the second nucleic acid in the host. Host organisms encompassed by the present invention include procaryotes and eucaryotes, particularly animals and plants. The present invention also relates to viruses containing the viral vectors which are infective, production cells which are capable of producing the viruses or parts thereof, a host infected by the viruses of the invention, the gene products produced by expression of the viral nucleic acids and a process for the production of a desired product by growing the infected hosts.

3 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw De
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☐ 4. Document ID: US 6284492 B1

L2: Entry 4 of 11

File: USPT

Sep 4, 2001

US-PAT-NO: 6284492

DOCUMENT-IDENTIFIER: US 6284492 B1

TITLE: Recombinant animal viral nucleic acids

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donson; Jon	Davis	CA		
Dawson; William O.	Winter Haven	FL		
Grantham; George L.	Riverside	CA		
Turpen; Thomas H.	Vacaville	CA		
Turpen; Ann M.	Vacaville	CA		

Garger; Stephen J. Vacaville CA
Grill; Laurence K. Vacaville CA

US-CL-CURRENT: 435/70.1, 435/235.1, 435/320.1, 435/325, 435/455, 435/456, 435/69.1,
536/23.1, 536/24.1

ABSTRACT:

The present invention relates to a recombinant viral nucleic acid selected from a (+) sense, single stranded RNA virus possessing a native subgenomic promoter encoding for a first viral subgenomic promoter, a nucleic acid sequence that codes for a viral coat protein whose transcription is regulated by the first viral subgenomic promoter, a second viral subgenomic promoter and a second nucleic acid sequence whose transcription is regulated by the second viral subgenomic promoter. The first and second viral subgenomic promoters of the recombinant viral nucleic acid do not have homologous sequences relative to each other. The recombinant viral nucleic acid provides the particular advantage that it systemically transcribes the second nucleic acid in the host. Host organisms encompassed by the present invention include procaryotes and eucaryotes, particularly animals and plants.

The present invention also relates to viruses containing the viral vectors which are infective, production cells which are capable of producing the viruses or parts thereof, a host infected by the viruses of the invention, the gene products produced by expression of the viral nucleic acids and a process for the production of a desired product by growing the infected hosts.

27 Claims, 9 Drawing figures
Exemplary Claim Number: 1,7
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	COMC	Draw De
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☐ 5. Document ID: US 6054566 A

L2: Entry 5 of 11

File: USPT

Apr 25, 2000

US-PAT-NO: 6054566

DOCUMENT-IDENTIFIER: US 6054566 A

TITLE: Recombinant animal viral nucleic acids

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Donson; Jon	Davis	CA		
Dawson; William O.	Winter Haven	FL		
Granthan; George L.	Riverside	CA		
Turpen; Thomas H.	Vacaville	CA		
Turpen; Ann Myers	Vacaville	CA		
Garger; Stephen J.	Vacaville	CA		
Grill; Laurence K.	Vacaville	CA		

US-CL-CURRENT: 536/23.1; 435/320.1

ABSTRACT:

The present invention relates to a recombinant viral nucleic acid selected from a (+) sense, single stranded RNA virus possessing a native subgenomic promoter encoding for a first viral subgenomic promoter, a nucleic acid sequence that codes for a viral coat protein whose transcription is regulated by the first viral subgenomic promoter, a second viral subgenomic promoter and a second nucleic acid sequence whose transcription is regulated by the second viral subgenomic promoter. The first and second viral subgenomic promoters of the recombinant viral nucleic acid do not have homologous sequences relative to each other. The recombinant viral nucleic acid provides the particular advantage that it systemically transcribes the second nucleic acid in the host. Host organisms encompassed by the present invention include procaryotes and eucaryotes, particularly animals and plants.

The present invention also relates to viruses containing the viral vectors which are infective, production cells which are capable of producing the viruses or parts thereof, a host infected by the viruses of the invention, the gene products produced by expression of the viral nucleic acids and a process for the production of a desired product by growing the infected hosts.

1 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KMOC	Draw De
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☐ 6. Document ID: US 5969121 A

L2: Entry 6 of 11

File: USPT

Oct 19, 1999

US-PAT-NO: 5969121

DOCUMENT-IDENTIFIER: US 5969121 A

TITLE: Stable biocatalysts for ester hydrolysis

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Larry	Northfield	IL		
Aikens; John	LaGrange Park	IL		
Fonstein; Michael	Chicago	IL		
Vonstein; Veronika	Chicago	IL		
Demirjian; David	Chicago	IL		
Casadaban; Malcolm	Chicago	IL		

US-CL-CURRENT: 536/23.1; 435/19, 435/196, 435/69.1, 536/23.2

ABSTRACT:

The instant invention encompasses isolated stable esterase enzymes characterized by

the ability to remain stable at certain temperatures, substrate specificities, and activity profile.

12 Claims, 121 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 47

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 7. Document ID: JP 2003144162 A

L2: Entry 7 of 11

File: JPAB

May 20, 2003

PUB-NO: JP02003144162A
DOCUMENT-IDENTIFIER: JP 2003144162 A
TITLE: RECOMBINANT CANDIDA RUGOSA LIPASE

PUBN-DATE: May 20, 2003

INVENTOR-INFORMATION:

NAME

COUNTRY

CHEI-FUU, SHOO

KUAN-CHIUN, LEE

SHII-CHIE, TAN

INT-CL (IPC): C12 N 15/09; C12 N 1/19; C12 N 1/21; C12 N 9/20

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a nucleic acid that can be used to functionally express a heterologous *C. rugosa* lipase in a common host cell, a lipase having a specific property for industrial applications and a microorganism capable of producing the lipase.

SOLUTION: This isolated nucleic acid comprises a mutant DNA encoding a Candida rugosa lipase, wherein the mutant DNA is at least 80% identical to a wild-type DNA encoding the Candida rugosa lipase, and includes at least 12 codons corresponding to CTG codons in the wild-type DNA, each of the 12 codons, independently, being TCT, TCC, TCA, TCG, AGT, or AGC. A chimeric Candida rugosa lipase comprises a substrate interacting domain of a first *C. rugosa* lipase and a non-substrate interacting domain of a second *C. rugosa* lipase. This *C. rugosa* lipase is encoded by the nucleic acid. This microorganism comprises the nucleic acid.

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Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☐ 8. Document ID: EP 1288294 A2

L2: Entry 8 of 11

File: EPAB

Mar 5, 2003

PUB-NO: EP001288294A2
DOCUMENT-IDENTIFIER: EP 1288294 A2
TITLE: Recombinant Candida rugosa lipases

PUBN-DATE: March 5, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
TANG, SHYE-JYE	TW
LEE, GUAN-CHIUN	TW
SHAW, JEI-FU	TW

INT-CL (IPC): C12 N 9/20; C12 N 15/09; C12 N 15/55; C12 N 15/62; C12 N 15/67
EUR-CL (EPC): C12N009/20

ABSTRACT:

CHG DATE=20030403 STATUS=O>????The present invention features an isolated nucleic acid encoding a mutant Candida rugosa lipase, wherein the mutant nucleic acid is 80% identical to a wild-type DNA encoding a Candida rugosa lipase, and where at least 12 of the CTG codons, corresponding to serine in the wild-type DNA, have been replaced by a universal serine codon. The Candida rugosa lipase can be lipase 1,2,3,5 or 8.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	NUMC	Draw De
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☐ 9. Document ID: US 20030124701 A1, EP 1288294 A2, JP 2003144162 A

L2: Entry 9 of 11

File: DWPI

Jul 3, 2003

DERWENT-ACC-NO: 2003-395476
DERWENT-WEEK: 200345
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TITLE: Isolated mutant nucleic acid encoding Candida rugosa lipase, useful for the preparation of Candida rugosa lipase for biocatalytic applications

INVENTOR: LEE, G; SHAW, J ; TANG, S

PRIORITY-DATA: 2001US-0943857 (August 31, 2001), 2001JP-0328304 (October 25, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20030124701 A1</u>	July 3, 2003		000	C12N009/20
<u>EP 1288294 A2</u>	March 5, 2003	E	033	C12N009/20
<u>JP 2003144162 A</u>	May 20, 2003		071	C12N015/09

INT-CL (IPC): C07 H 21/04; C12 N 1/18; C12 N 1/19; C12 N 1/21; C12 N 9/20; C12 N 15/09; C12 N 15/55; C12 N 15/62; C12 N 15/67; C12 N 15/74; C12 P 21/02

ABSTRACTED-PUB-NO: EP 1288294A

BASIC-ABSTRACT:

NOVELTY - An isolated nucleic acid (I) comprising a mutant DNA encoding Candida rugosa lipase (II) which comprises a sequence having at least 80% identity to a wild-type DNA encoding (II) and includes at least 12 codons corresponding to CTG codons in the wild-type DNA, or comprising a sequence (S2) of 1469, 1532, 1548 or 1541 nucleotides fully defined in the specification or its degenerate variant, is new.

DETAILED DESCRIPTION - An isolated nucleic acid (I) comprising a mutant DNA encoding Candida rugosa lipase (II). The mutant DNA comprises a sequence having at least 80% identity to a wild-type DNA encoding (II), and includes at least 12 codons corresponding to CTG codons in the wild-type DNA, where each of the 12 codons, independently, are TCT, TCC, TCA, TCG, AGT or AGC, provided that (II) is not C.rugosa lipase 4. (II) comprises a sequence (S2) of 1469, 1532, 1548 or 1541 nucleotides fully defined in the specification or its degenerate variant.

INDEPENDENT CLAIMS are also included for the following:

- (1) A microorganism (III) comprising (I), where (III) is a bacterium or yeast;
- (2) Preparing a mutant DNA encoding a C.rugosa lipase;
- (3) A chimeric C.rugosa lipase comprising a substrate interacting domain of a first C.rugosa lipase and a non-substrate interacting domain of second C.rugosa lipase.

USE - The method is useful for preparing a mutant DNA encoding a Candida rugosa lipase (claimed). (I) is useful in the large scale manufacture of Candida rugosa lipase which is useful for biocatalytic applications.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWAC	Draw. D
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☐ 10. Document ID: EP 1130100 A1

L2: Entry 10 of 11

File: DWPI

Sep 5, 2001

DERWENT-ACC-NO: 2001-649825

DERWENT-WEEK: 200175

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TITLE: Modified lipolytic enzymes with altered substrate specificity, useful for biocatalytic applications comprising high specificity towards carbon 16 and carbon 18 acyl chains

INVENTOR: BORNSCHEUER, U T; BROCCA, S ; PLEISS, J ; SCHMID, R D ; SCHMID, U ; SCHMITT, J

PRIORITY-DATA: 2000EP-0200513 (February 14, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1130100 A1</u>	September 5, 2001	E	033	C12N015/55

INT-CL (IPC): C12 N 9/20; C12 N 15/55; C12 Q 1/68

ABSTRACTED-PUB-NO: EP 1130100A

BASIC-ABSTRACT:

NOVELTY - A variant, (I), of a parent lipase, with altered property, encoded by an amino acid sequence having at least 65% homology with Candida rugosa lipase comprising a sequence of 534 amino acids fully defined in the specification, and which differs by at least one amino acid substitution at a selected site or at a non-selected site by random mutagenesis in the lipase, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) a modified nucleic acid sequence (II) encoding a lipase variant, where the variant is the ripening form of C.rugosa lipase selected from pre, pro, prepro or mature lipase, where the nucleic acid sequence comprises 60% or less of the CTG codons at positions encoding serine as present in the corresponding native C.rugosa encoding sequence, where the CTG codons are replaced by a universal codon for serine, the modified nucleic acid sequence is further modified, such that lipase variant exhibits an altered property;

(2) an expression vector (III) comprising (II), operably linked to a promoter;

(3) a recombinant DNA (rDNA) modified host organism (IV) which has been transformed by a DNA vector carrying (II) and which is capable of expressing the lipase variant;

(4) producing (I); and

(5) an enzymatic composition comprising (I).

USE - (I) are useful in a manner known per se in a process requiring high specificity towards 16-18C acyl chains. (II) is useful as a probe for picking up a natural lipase by hybridization (claimed). (I) is useful in biocatalytic applications.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUOC	Draw De
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☐ 11. Document ID: WO 9914338 A1, EP 1012301 A1, AU 9742249 A

L2: Entry 11 of 11

File: DWPI

Mar 25, 1999

DERWENT-ACC-NO: 1999-229539

DERWENT-WEEK: 200035

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TITLE: Synthesis and functional overexpression of a Candida rugosa lipase gene coding for a major industrial lipase

INVENTOR: ALBERGHINA, L; BROCCA, S ; LOTTI, M ; SCHMID, R ; SCHMIDT-DANNERT, C

PRIORITY-DATA: 1997WO-NL00524 (September 16, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9914338 A1	March 25, 1999	E	044	C12N015/55
EP 1012301 A1	June 28, 2000	E	000	C12N015/55
AU 9742249 A	April 5, 1999		000	C12N015/55

INT-CL (IPC): C12 N 1/19; C12 N 9/20; C12 N 15/55

ABSTRACTED-PUB-NO: WO 9914338A

BASIC-ABSTRACT:

NOVELTY - Pure Candida rugosa lipase 1, free of lipases 2-5, can be obtained without using extensive working up procedures.

DETAILED DESCRIPTION - Nucleic acid sequence (I) or its variant (Ia) encoding a ripening form of native Candida rugosa lipase (pre, pro, prepro or mature lipase) comprises at most 60% of the CTG codons at positions encoding serine as present in the corresponding native C.rugosa encoding sequence, the CTG codons having been replaced by a universal codon for serine. The lipase is preferably lipase 1.

INDEPENDENT CLAIMS are included for the following:

(1) expression vectors comprising a nucleic acid sequence as above, operatively linked to a promoter;

(2) microorganisms other than C.rugosa comprising a sequence or expression vector as above, preferably comprising more than 1 sequence;

C.rugosa lipase contaminated by at most 20%, preferably 5%, of other C.rugosa protein or free of other C.rugosa lipase i.e. homogenous C. rugosa lipase; and

(3) industrial scale production of C.rugosa lipase 1, free from lipases 2-5.

USE - Lipases produced by Candida rugosa are extensively used in industrial bioconversions, and the pure lipase 1 can be used in a process requiring high specificity towards acyl chains shorter than 14C

ADVANTAGE - Lipase 1, free of 2-5, can be obtained without using extensive and expensive working up procedures. Pure lipase 1 exhibits higher activity towards caprinate than towards palmitate.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INDEX	Draw D
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☐ 1. Document ID: US 20030199069 A1

L4: Entry 1 of 3

File: PGPB

Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199069

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030199069 A1

TITLE: Novel lipolytic enzymes

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fuglsang, Claus Crone	Nivaa	CA	DK	
Okkels, Jens Sigurd	Frederiksberg C.		DK	
Petersen, Dorte Aaby	Valby		DK	
Patkar, Shamkant Anant	Lyngby		DK	
Thellersen, Marianne	Frederiksberg C.		DK	
Svendsen, Allan	Birkerød		DK	
Borch, Kim	Kobenhavn K		DK	
Royer, John C.	Davis		US	
Kretzschmar, Titus	Vaerlose		DK	
Halkier, Torben	Birkerød		DK	
Vind, Jesper	Lyngby		DK	
Jorgensen, Steen Troels	Allerød		DK	

US-CL-CURRENT: [435/198](#); [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 20030124701 A1

L4: Entry 2 of 3

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030124701

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030124701 A1

TITLE: Recombinant Candida rugosa lipases

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shaw, Jei-Fu	Taipei		TW	
Lee, Guan-Chiun	Taipei		TW	
Tang, Shye-Jye	Taipei		TW	

US-CL-CURRENT: [435/198](#); [435/254.22](#), [435/320.1](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20030065148 A1

L4: Entry 3 of 3

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030065148

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030065148 A1

TITLE: Method for expression of human interferon alpha 1 in Pichia pastoris

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Villarete, Lorelie H.	Alameda	CA	US	
Liu, Philip T.	Alameda	CA	US	
Ta, Tuan V.	Alameda	CA	US	

US-CL-CURRENT: [530/351](#); [435/254.23](#), [435/320.1](#), [435/69.51](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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